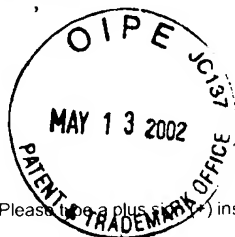


1743



Please place a plus sign (+) inside this box → ☐

PTO/SB/21 (08-00)
Approved for use through 10/31/02 OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<h1>TRANSMITTAL FORM</h1> <p><i>(to be used for all correspondence after initial filing)</i></p>	Application Number	10/087,264
	Filing Date	February 28, 2002
	First Named Inventor	Giacomo VACCA
	Group Art Unit	1743
	Examiner Name	To Be Assigned
Total Number Of Pages In This Submission	10 + 43 References	Attorney Docket No. 373722002600 (Client Ref. A119)

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declarations	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	1. Form PTO-1449 (w/copy) - 6 pages
<input checked="" type="checkbox"/> Information Disclosure Statement - 3 pages	<input type="checkbox"/> Request for Refund	2. Forth-three (43) References
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	3. Two Return Receipt Postcards
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY OR AGENT	
Firm or Individual Name	Morrison & Foerster LLP, 755 Page Mill Road, Palo Alto, California 94304-1018
Signature	
Date	May 7, 2002

CERTIFICATE OF MAILING BY "FIRST CLASS MAIL"	
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on May 7, 2002.	
 Kerry Keehan	

Burden Hours Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.



PATENT
Docket No. 373722002600
Client Reference: A119

CERTIFICATE OF MAILING BY "FIRST CLASS MAIL"

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:
Assistant Commissioner for Patents, Washington, D.C. 20231, on May 7, 2002.


Kerry Keenan

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Giacomo VACCA et al.

Serial No.: 10/087,264

Filing Date: February 28, 2002

For: MICROFLUIDIC CONTROL USING
DIELECTRIC PUMP

Examiner: BRown
~~To Be Assigned~~

Group Art Unit: 1743

INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents are also submitted herewith. The Examiner is requested to make these documents of record.

This Information Disclosure Statement is submitted:

- ☐ With the application; accordingly, no fee or separate requirements are required.
- ☒ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - ☐ A fee is required. A check in the amount of * is enclosed.
 - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly, no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a check in the amount of * is enclosed.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.

Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that an extension and/or other relief is required, Applicants petition for any required relief including extensions of time and authorize the Assistant Commissioner to

charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing 373722002600. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: May 7, 2002

Respectfully submitted,

By: 

Charles D. Holland
Registration No. 35,196
Morrison & Foerster LLP
755 Page Mill Road
Palo Alto, California 94304-1018
Telephone: (650) 813-5832
Facsimile: (650) 494-0792

Form PTO-1449

Docket Number 373722002600

Application Number: 10/087,264

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

Applicant

Giacomo VACCA et al.

Filing Date February 28, 2002

Group Art Unit 1743

Mailing Date May 7, 2002



U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	04/22/1986	4,583,824	Lea			
	2.	12/06/1988	4,789,228	Le Pesant et al.			
	3.	01/29/1991	4,988,157	Jackel et al.			
	4.	12/16/1997	5,699,462	Fouquet et al.			
	5.	07/13/1999	5,921,678	Desai et al.			
	6.	09/21/1999	5,956,005	Sheridon			
	7.	09/28/1999	5,960,131	Fouquet et al.			
	8.	11/02/1999	5,978,527	Donald			
	9.	04/25/2000	6,055,344	Fouquet et al.			
	10.	06/06/2000	6,072,924	Sato et al.			
	11.	01/09/2001	6,170,981	Regnier et al.			
	12.	04/03/2001	6,210,128	Rife et al.			
	13.	05/15/2001	6,231,737	Ramsey et al.			
	14.	09/11/2001	6,287,520	Parce et al.			
	15.	10/23/2001	6,306,659	Parce et al.			
	16.	12/18/2001	6,331,073	Chung			
	17.	12/18/2001	6,331,439	Cherukuri et al.			
	18.	01/01/2002	6,334,676	Kaszczuk et al.			
	19.	01/08/2002	6,337,740	Parce			
	20.	01/29/2002	6,342,142	Ramsey			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	21.	06/24/1994	JP 06-175052	Japan			
	22.	04/07/1995	JP 07-092405	Japan			

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449				Docket Number 373722002600		Application Number 10/087,264	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)				Applicant			
				Giacomo VACCA et al.			
				Filing Date February 28, 2002		Group Art Unit 1743	
				Mailing Date May 7, 2002			
23		03/08/1996	JP 08-062645	Japan			
24		12/27/2001	WO 01/98759	WIPO			Derwent Abstract

OTHER DOCUMENTS

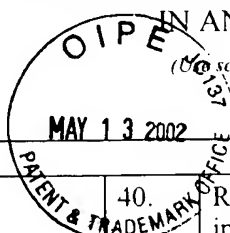
(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	25.	Patent Abstracts of Japan for Japanese patent no. 06-175052, published on June 24, 1994 (2 pages, abstract only).
	26.	Patent Abstracts of Japan for Japanese patent no. 07-092405, published on April 07, 1995 (1 page, abstract only).
	27.	Patent Abstracts of Japan for Japanese patent no. 08-062645, published on March 08, 1996 (1 page, abstract only).
	28.	Beni, G. and Hackwood, S. (1981). "Electro-Wetting Displays," <i>Appl. Phys. Lett.</i> 38(4): 207-209.
	29.	Jackel, J. L. et al. (1983). "Electro Wetting Switch for Multimode Optical Fibers," <i>Applied Optics</i> 22(11): 1765-1770.
	30.	Jang, J. and Lee, S. S. (2000). "Theoretical and Experimental Study of MHD (Magnetohydrodynamic Micropump)," <i>Sensors and Actuators</i> 80:84-89.
	31.	Krijnen, G. J. M. et al. (1999). "Optical Devices Based on Fluidic Controlled Two-Mode Interference," <i>J. Micromech. Microeng.</i> 9:203-205.
	32.	Lea, M. C. (1981). "Optical Modulators Based on Electrocapillarity," <i>Optic Letters</i> 6(8):395397.
	33.	Lee, J. and Kim, C-J (2000). "Surface-Tension-Driven Microactuation Based on Continuous Electrowetting," <i>Journal of Microelectromechanical Systems</i> 9(2):171-180.
	34.	Lemoff, A. V. and Lee, A. P. (2000). "An AC Magnetohydrodynamic Micropump," <i>Sensors and Actuators</i> B63:178-185.
	35.	Makihara, M. et al. (1999). "Micromechanical Optical Switches Based on Thermocapillary Integrated in Waveguide Substrate," <i>Journal of Lightwave Technology</i> 17(1):14-18.
	36.	Pollack, M. G. and Fair, R. B. (2000). "Electrowetting-Based Actuation of Liquid Dropets for Microfluidic Applications," <i>Applied Physics Letters</i> 77(11):1725-1726.
	37.	Prins, M. W. J. et al. (2001). "Fluid Control in Multichannel Structures by Electrocapillary Pressure," <i>Science</i> 291:277-280.
	38.	Richter, A. et al. (1991). "Electrohydrodynamic Pumping and Flow Measurement," <i>IEEE PROC. MEMS</i> , New York, USA, pp. 271-276.
	39.	Richter, A. and Hermann, S. (1990). "An Electohydrodynamic Micropump," <i>IEEE PROC. MEMS</i> , New York, USA, pp. 99-104.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449		Docket Number 373722002600	Application Number 10/087,264
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Applicant Giacomo VACCA et al.	
		Filing Date February 28, 2002	Group Art Unit 1743
		Mailing Date May 7, 2002	
			
40.	Ross, D. and Aitchison, J. S. (2001). "Microfluidic Optical Switches Using Two Non-Mixing Fluids in a Mach Zehnder Interferometer," OECC/IOOC 2001 Conferences Incorporating ACOFT, Monday 2 July-Thursday 5, July, 2001, 2 pages.		
41.	Sakata, T. et al. (2001). "Improvement of Switching Time in a Thermocapillarity Optical Switch," <i>Journal of Lightwave Technology</i> 19(7):1023-1027.		
42.	Sato, M. (1994). "Electrocapillarity Optical Switch," <i>IEICE Trans. Commun.</i> E77-B(2):197-203.		
43.	Vallet, M. et al. (1996). "Electrowetting of Water and Aqueous Solutions on Poly(Ethylene Terephthalate) Insulating Films," <i>Polymer</i> 37(12):2465-2470.		
<div style="border: 1px solid black; height: 400px; width: 100%;"></div>			
EXAMINER:		DATE CONSIDERED:	
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.			